

IV. Remarks

Reconsideration and allowance of the subject application are respectfully requested.

Claims 2-5, 7-10, 12, and 19-43 are pending in the application. Claims 19, 20, and 30 are independent.

Applicant has added new Claims 19-43 to afford himself a scope of protection commensurate with the disclosure. The new claims are fully supported in the specification and Drawings, and are believed to be allowable for the reasons to be developed below.

The specification and Drawings have been amended to correct typographical errors noted therein. In particular, equations with the value "4D1" have been corrected to read "iD1", to agree with the specification at, inter alia, the paragraphs bridging pages 8-9 and 12-13 of the specification. No new matter has been added.

The cancellation of Claims 1 and 15-17 moots their rejections under 35 U.S.C. § 112, first and second paragraphs.

Claims 1-10, and 15-18 were rejected as being unpatentable over Watanabe, Dam, Ekemark and Ozluturk for the reasons discussed on pages 3-8 of the Office Action. Applicant respectfully traverses all art rejections.

The Examiner kindly indicated that Claims 11-14 contain allowable subject matter. Therefore, while specifically traversing the art rejections, and preserving Applicant's right to file a continuation application to pursue the broad but patentable claims, Applicant has incorporated subject matter from the allowable dependent claims into the new independent

Claims 19 and 20 solely to secure immediate allowance thereof (and their associated dependent claims).

Independent Claim 30 recites a novel combination of steps and/or function whereby a method of improving reception in a multiple access communications system includes the steps of: (i) determining the received power level at a receiver of at least one interfering signal transmitted from a transmitter, wherein said at least one interfering signal is predetermined; (ii) subtracting said at least one interfering signal, at said received power level, from a total signal received at said receiver; and (iii) determining a desired signal from the result of said subtraction. In contrast, Watanabe fails to disclose or suggest (i) determining the received power level at a receiver of at least one interfering signal, wherein the interfering signal is predetermined; (ii) subtracting the interfering signal, at the received power level, from the total signal received; and (iii) determining a desired signal from the subtraction. Likewise, the remaining art of record fails to disclose such a combination (whether that art is taken individually or in combination).

In view of the above amendments and remarks, it is believed that this application is now in condition for allowance, and a Notice thereof is respectfully requested.

Applicant's undersigned attorney may be reached in our Washington, D.C. office by telephone at (202) 625-3500. All correspondence should continue to be directed to our address given below.

Respectfully submitted,

A handwritten signature in black ink, appearing to read "Richard P. Bauer", written over a horizontal line.

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Appendix

Annotated Sheets Showing Changes

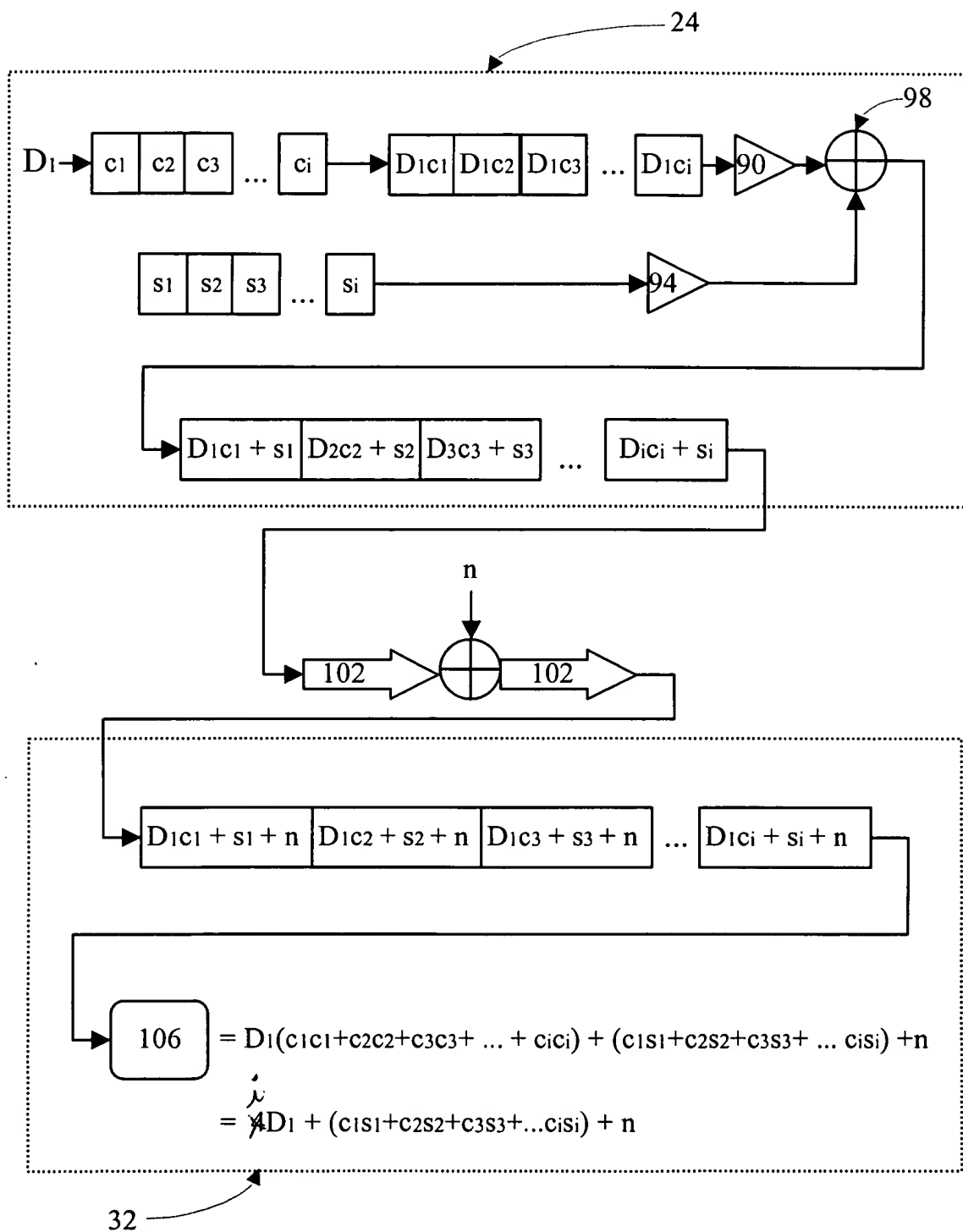


Fig. 2



$$\begin{aligned}
 \rightarrow \boxed{106} &= D_1(c_1c_1+c_2c_2+c_3c_3+ \dots + c_ic_i) + (c_1s_1+c_2s_2+c_3s_3+ \dots c_is_i) + n \\
 &= \cancel{D_1} + (c_1s_1+c_2s_2+c_3s_3+ \dots c_is_i) + n \\
 &= \cancel{D_1} + (c_1s_1+c_2s_2+c_3s_3+ \dots c_is_i) + n - (c_1s_1+c_2s_2+c_3s_3+ \dots c_is_i) \\
 &= \cancel{D_1} + n
 \end{aligned}$$

Fig. 3